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ELECTRONIC THESIS AND DISSERTATION UNSYIAH

TITLE

KADAR KALSIMUM, FOSFOR, DAN MAGNESIUM DARAH GAJAH SUMATERA (ELEPHAS MAXIMUS SUMATRANUS) DI PUSAT KONSERVASI GAJAH SAREE ACEH BESAR

ABSTRACT

HARRYANTO ARLEN 1202101010056 ABSTRAK Penelitian ini bertujuan menganalisis kadar kalsium (Ca), fosfor (P), dan magnesium (Mg) darah gajah sumatera di PKG Saree. Sampel penelitian adalah darah yang diambil dari vena aurikularis 6 ekor gajah sumatera di PKG Saree. Sampel disimpan dalam suhu dingin (4oC) dan dibawa ke Laboratorium Riset, Banda Aceh untuk pemeriksaan kadar kalsium, fosfor, dan magnesium menggunakan metode spektrofotometri dengan alat atomic absorption spectrophotometer (AAS). Hasil pemeriksaan menunjukkan bahwa rata-rata kadar kalsium, fosfor, dan magnesium darah gajah sumatera masing-masing adalah 10,62 0,62 mg/dl, 5,47 0,79 mg/dl, dan 2,48 0,34 mg/dl. Dari hasil penelitian dapat disimpulkan bahwa kadar kalsium, fosfor, dan magnesium darah gajah sumatera di PKG Saree, Aceh Besar berada dalam kisaran normal untuk gajah asia. Perbandingan kadar kalsium, fosfor, dan magnesium darah gajah sumatera adalah 4:2:1 (Ca:P:Mg). HARRYANTO ARLEN 1202101010056 ABSTRACT This study was done to analyze the level of calcium (Ca), phosphorus (P), and magnesium (Mg) in the blood of sumatran elephants at the PKG of Saree. Samples used were blood collected from the posterior auricular vein of 6 sumatran elephants at the PKG. Samples were stored in cold temperature (4oC) and brought to the Research Laboratory in Banda Aceh for further analysis. Determination of calcium, phosphorus, and magnesium contents was done spectrophotometrically using atomic absorption spectrophotometer (AAS). The results showed that the average levels of calcium, phosphorus, and magnesium in the blood of sumatran elephants were 10.62 0.62 mg/dl, 5.47 0.79 mg/dl, and 2.48 0.34 mg/dl respectively. It can be concluded that calcium, phosphorus, and magnesium levels in the blood of sumatran elephants at the PKG of Saree, Aceh Besar were in the normal range of those of asian elephants. Ratio of calcium, phosphorus, and magnesium in the blood of sumatran elephants was 4:2:1 (Ca:P:Mg).